

5. (Amended) A method according to Claim 1 wherein R_5' is selected from the group consisting of hydrogen and 1-propenyl and R_4 is 2-methylpropyl.

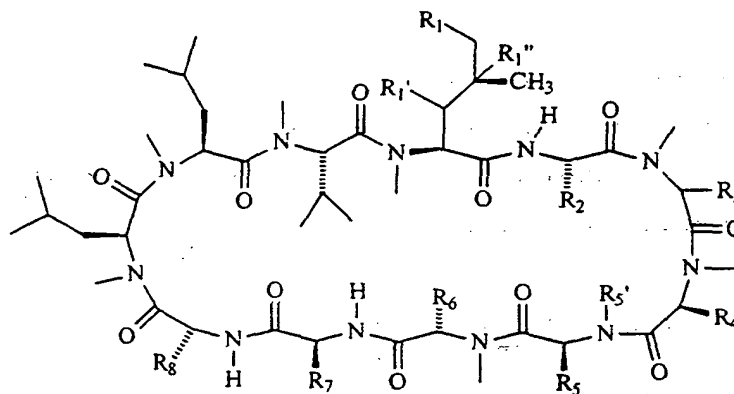
6. (Amended) A method according to Claim 1 wherein R_5 is *iso*-propyl and R_6 is 2-methylpropyl.

7. (Amended) A method according to Claim 1 wherein R_7 is methyl and R_8 is methyl.

8. (Amended) A method according to Claim 1 wherein R_1 is 1-propenyl and R_1' is oxo.

9. (Amended) A method according to Claim 1 wherein the administration is topical.

10. (Amended) A composition useful for treating hair loss comprising a non-immunosuppressive compound having the structure:



and pharmaceutically acceptable salts, hydrates, and biohydrolyzable amides, esters, and imides thereof, wherein;

- (a) R_1 is selected from the group consisting of 1-propenyl, propyl, 3-hydroxy-1-propenyl, -O-methyl, -O-*p*-benzoyl benzyl, and hydroxy;
- (b) R_1' is selected from the group consisting of hydroxy, oxo, and acyloxy;
- (c) R_1'' is selected from the group consisting of hydrogen and methyl;
- (d) R_2 is selected from the group consisting of ethyl, *n*-butyl, 2-hydroxypropyl, 2-methoxypropyl, 1-methylpropyl, and 2-acyloxy-propyl;
- (e) R_3 is selected from the group consisting of hydrogen, methyl, benzyl, 1-propenyl, and 2-methyl-3-hydroxy-propyl;